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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,355	01/18/2007	Ian Powlesland	P08945US00/DEJ	8470
STITES & HAI	7590 07/08/200 RBISON PLLC	EXAMINER		
1199 NORTH FAIRFAX STREET			NOORI, MAX H	
	SUITE 900 ALEXANDRIA, VA 22314			PAPER NUMBER
			2855	
			MAIL DATE	DELIVERY MODE
			07/08/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Occurrence	10/581,355	POWLESLAND ET AL.				
Office Action Summary	Examiner	Art Unit				
	Max Noori	2855				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>25 Ar</u>	oril 2008.					
, <u> </u>	action is non-final.					
<i>,</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-41</u> is/are pending in the application.	4) Claim(s) 1-41 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>29-41</u> is/are allowed.						
6)⊠ Claim(s) <u>1-3,5-9 and 12-14</u> is/are rejected.						
7) Claim(s) <u>4,10,11 and 15-28</u> is/are objected to.						
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Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
dee the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) M Notice of References Cited (RTO 903)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) U Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-3, 5-9, and 12-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Oba et al.

Regarding claims 1, 5, 12, Qba et al., discloses a sensor failure or abnormality detector with features of the claimed invention including a semiconductor substrate (col. 4, line 41), having various portions along indirect (circular) path (see, for example, figures 7A, 9A, or 13A), with strain sensing element coupled to these load portions. When said strain sensing element is subjected to tension or compression (see for example, claim 15 or claim 17), the related portion respectively extends or bends subjecting a first of said pair of piezo-resistors to compression and a second of said pair of piezo-resistors to tension simultaneously (see, for example, claim 55)

Regarding claims 2-3, the sensing element comprises a curved silicon member (see claim 55).

Regarding claim 6, the sensing element is a circle with two pairs of piezo-resistors (see claim 55).

Regarding claims 7-9, the cited prior art recite the use of plurality of sensors.

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Regarding claims 13-14, the cited prior art recite the constitution of use of plurality of

sensors.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Oba et al.

Oba et al., may not show any of the specific shapes recited in this claim. However, since

the nature of the shape of the stain gauge formation, is well within the level of a skilled artisan, it

would have been obvious for a skilled artisan at the time of the invention to modify his device to

use any desired shape. Because the mere change of the shape of the arrangement of the sensor

fails to provide for an unobvious advantage or any distinction from other similar shapes.

5. Claims 10-11 and 15-28 objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

6. Claims 29-41 are allowed over the prior art of the record, mainly for the provision of

specific configuration of "plurality of compliant tethers".

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Response to Amendment

7. Applicant's amendment and arguments filed 4/25/08 have been fully considered but they are most in view of the new ground of rejection.

8. THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for response to this final action is set to expire THREE MONTHS from the date of this action. In the event a first response is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event will the statutory period for response expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Max H. Noori whose telephone number is (571) 272-2185. The examiner can normally be reached on Tuesday-Friday from 8:00 AM to 6:00 P.M.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-2800. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. The central fax number is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Max Noori/ Primary Examiner, Art Unit 2855 Tuesday, July 08, 2008